

SmartEye V3 IGS Sensor

Data Sheet



The V3 IGS Sensor is designed to detect the presence of parked vehicles, report overstays to Infringement Handheld devices and to provide space availability data to Digital Guidance Signs where installed. These signs provide information about the number of available bays to the customer whether on the approach to the car park, at each level or on each aisle. As with our other “Smart” products, our V3 IGS Sensor interfaces into the SmartRep Management and Reporting System to enable car park managers to analyse and report on car park activity via a range of reporting and statistical formats.

3RD GENERATION IN-GROUND VEHICLE DETECTION SENSORS

Smart Parking's 3rd Generation vehicle detection sensor demonstrates our commitment to innovation and provides the industry benchmark for accurate, real time, space-by-space monitoring.

- A combination of infrared and magnetic field detection mechanisms setting the highest standards for accuracy.
- An ultra-long battery life of between 7-10 years
- A 50mm physical diameter
- Quick installation
- Operation in extreme environment conditions between -30 and 80°C
- Over-The-Air (OTA) maintenance design
- Supports RFID based vehicle identity based services and permits.
- Independent co-existence with other existing IT infrastructure meaning that there is no impact upon other systems.



Technical Description

Battery-powered Infrared/Magnetic sensor with Radio Frequency transceiver in the middle of each parking bay. Enclosed in robust housing.

Function

Detects the presence or absence of a vehicle and uses that information to determine if a bay is available or occupied. Transmits gathered information over the wireless RF network to a SmartSpot radio repeater.

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Specifications

Physical

Housing	Xenoy Polycarbonate
Colour	Grey
Diameter	50mm
Height	99mm: 5mm of which is above the road surface
Operating Temperature	Minus 30 °C to 85 °C
Weight	0.2kg

IP Rating	68
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Power

Operating Voltage	3.6 V
Battery	19,000mAh Li-SOCL2
Battery Life	7-10 years dependent on configuration

Sensing method

Vehicle detection	Infrared and magnetic
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Data to/from SmartSpot

Transmission	Radio Frequency (RF)
Protocol	TI CC1100 on-air protocol